CLAIMS

A system comprising:

a processor;

a dynamic memory having an adjustable refresh frequency; and

at least one temperature sensor, coupled to the dynamic memory, to sense the dynamic memory's temperature, the processor to adjust the refresh frequency of the dynamic memory based at least in part to the dynamic memory's sensed temperature.

2. The system of claim 1 wherein the dynamic memory comprises a low-power synchronous dynamic random access memory.

3. The system of claim 1 wherein the adjustable refresh frequency comprises a self-refresh frequency.

4. The system of claim 1 wherein the adjustable refresh frequency comprises a distributed refresh frequency.

5. The system of claim 1 wherein the temperature sensor is integrated with the dynamic memory.

6. The system of claim 1 wherein the temperature sensor is attached to a ceramic package of the dynamic memory.

7. The system of claim 1 wherein the temperature sensor is located within several centimeters of the dynamic memory.

8. The system of claim 1 wherein the system comprises at least one of a personal digital assistant, a cellular phone, an Internet tablet, a personal computer.

9. An article comprising:

a storage medium having stored thereon instructions, that, when executed by a computing platform, result in adjusting a frequency of a refresh operation of a dynamic memory of the computing platform by:

sensing a temperature of the dynamic memory ; and

adjusting the frequency of the refresh operation based at least in part on the dynamic memory's sensed temperature.

10. The article of claim 8, wherein said dynamic memory comprises a low-power synchronous dynamic random access memory.

11. The article of claim 8, wherein the temperature sensor is integrated with the dynamic memory.

12.. The article of claim 8, wherein the temperature sensor is attached to a package of the dynamic memory.

13. The article of claim 8, wherein the temperature sensor is located within several centimeters of the dynamic memory.

14. The article of claim 8, wherein the computing platform comprises at least one of a personal digital assistant, a cellular phone, an Internet tablet, a personal computer.

15. The article of claim 8, wherein the refresh operation is a self-refresh operation.

16. The article of claim 8 wherein the refresh operation is a distributed refresh operation.

17. A method comprising:

sensing a temperature of a memory;

issuing a command to the memory; and

adjusting a refresh frequency of the memory based at least in part to the memory's sensed temperature.

18. The method of claim 16 wherein issuing a command comprises setting a value in an extended mode register of the memory.

19. The method of claim 16 wherein the memory is a low-power synchronous dynamic random access memory.

20. The method of claim 16 wherein sensing the temperature comprises locating a temperature sensor within zero to seven centimeters of the memory.

21. The method of claim 16 wherein sensing the temperature comprises integrating a temperature sensor with the memory.

22. The method of claim 16 wherein sensing the temperature comprises coupling a temperature sensor with a package of the memory.